



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Metal Sales Manufacturing Corporation
545 South 3rd Street, Suite 200
Louisville, KY. 40202

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 5V Crimp Metal Roofing System

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA#09-0105.09 and consists of pages 1 through 9.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0627.02
Expiration Date: 06/29/18
Approval Date: 08/01/13
Page 1 of 9

ROOFING SYSTEM APPROVAL:

Category: Roofing
Sub-Category: Metal, Panels (Non-Structural)
Material: Steel
Deck Type: Wood
Maximum Design Pressure -196.75 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
5V-Crimp Metal Roof	l = varies w = 24" h = 1/2" Min. Thickness 0.0179" (26ga.) Min. Yield Strength: 60ksi	TAS 110	Corrosion resistant, galvanized, preformed, coated, prefinished, metal panels.
Trim Pieces	l = varies w = varies Min. Thickness 0.0179" (26ga.)	TAS 110	Standard flashing and trim pieces. Manufactured for each panel width.

MANUFACTURING LOCATION:

- Jacksonville, FL.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Akzo Coatings		ASTM G 23 ASTM B 117	
Valspar Corporation		ASTM G 23 ASTM B 117	
Underwriters Laboratory	R9697	UL 790	July 1998
PRI Construction Materials	MSMC-003-02-01	TAS-100	June 2006
Celotex Corporation Testing Services	MTS 520103	ASTM E 8	Jan. 1999
Hurricane Test Laboratory, Inc.	0103-1213-98	TAS 125	Dec. 1998
	0103-0712-09	TAS 125	Sept 2009
Farabaugh Engineering and Testing, Inc.	T181-05	TAS 125	July 2005
	T235-07	TAS 125	July 2007
	T240-09	TAS 125	Sept 2009



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APPROVED ASSEMBLIES:

System A:	5V-Crimp Metal Roof Panel
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction $1\frac{9}{32}$ " or greater plywood or wood plank, or for re-roofing $1\frac{5}{32}$ " or greater plywood.
Maximum Uplift Pressure:	See Table A below.

Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d ring shank nails spaced 6" o.c. In reroofing, where the deck is less than $1\frac{9}{32}$ " thick (Minimum $1\frac{5}{32}$ ") the above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 $\frac{1}{4}$ " annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any approved underlayment having a current NOA.
Fire Barrier:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Metal Sales Manufacturing Corporation's current published installation instructions.
Metal Panels and Accessories:	Install the "5V-Crimp Panels" and accessories in compliance with Metal Sales Manufacturing Corporation's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standards RAS 133.

Panel fasteners shall be #9-15 x 1- $\frac{1}{2}$ " self drilling, self tapping, hex head screws with sealing washer of sufficient length to penetrate through the sheathing a minimum of $\frac{3}{16}$ inch.

Fasteners shall be installed at a maximum spacing as listed in **Table A** below parallel to the slope. Fasteners shall be installed at a maximum of 12" o.c. at panel edge. See detail herein.

TABLE A		
MAXIMUM DESIGN PRESSURES		
Roof Areas	Field	Perimeter and Corner¹
Maximum Design Pressures	-74.8 psf	-196.75 psf
Maximum Fastener Spacing	16" o.c.	8" o.c.
1. Extrapolation shall not be allowed		



System B: 5V-Crimp Metal Roof Panel

Deck Type: Wood, Non-insulated

Deck Description: New Construction $19/32$ " or greater plywood or wood plank, or for re-roofing $15/32$ " or greater plywood.

Maximum Uplift Pressure: See Table B below.

Deck Attachment: In accordance with applicable Building Code, but in no case shall it be less than 8d ring shank nails spaced 6" o.c. In reroofing, where the deck is less than $19/32$ " thick (Minimum $15/32$ ") the above attachment method must be in addition to existing attachment.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 $1/4$ " annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any approved underlayment having a current NOA.

Fire Barrier: Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Metal Sales Manufacturing Corporation's current published installation instructions.

Metal Panels and Accessories: Install the "5V-Crimp Panels" and accessories in compliance with Metal Sales Manufacturing Corporation's current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standards RAS 133.

Panel fasteners shall be #9-15 x 1- $1/2$ " self drilling, self tapping, hex head screws with sealing washer of sufficient length to penetrate through the sheathing a minimum of $3/16$ inch.

Fasteners shall be installed at a maximum spacing as listed in **Table B** below parallel to the slope. Fasteners shall be installed at a maximum of 6" o.c. at panel edge. See detail herein.

TABLE B MAXIMUM DESIGN PRESSURES		
Roof Areas	Field	Perimeter and Corner ¹
Maximum Design Pressures	-84.5 psf	-131.3 psf
Maximum Fastener Spacing	24" o.c.	18" o.c.
1. Extrapolation shall not be allowed		



LIMITATIONS

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. Panel shall be roll formed in continuous lengths from eave to ridge. Maximum lengths shall be described in the Roofing Application Standard RAS 133.
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.

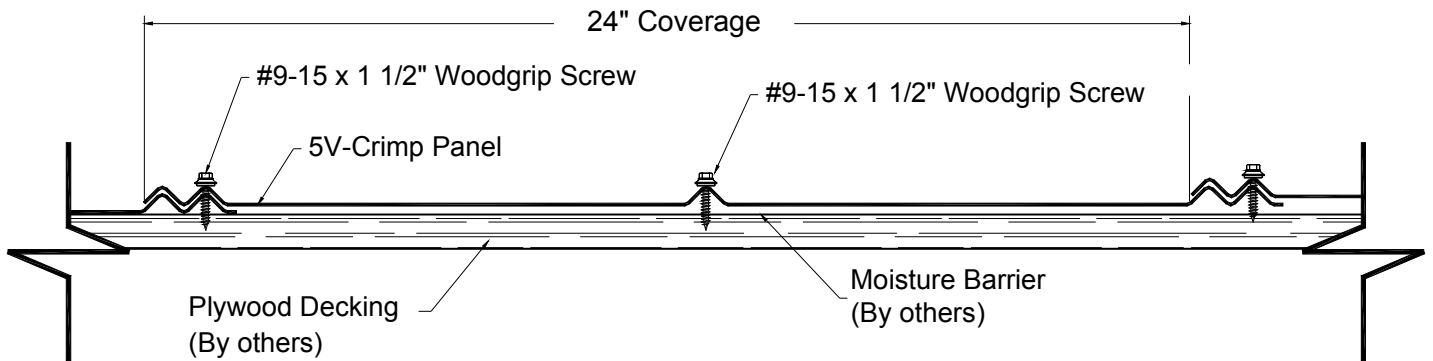


5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

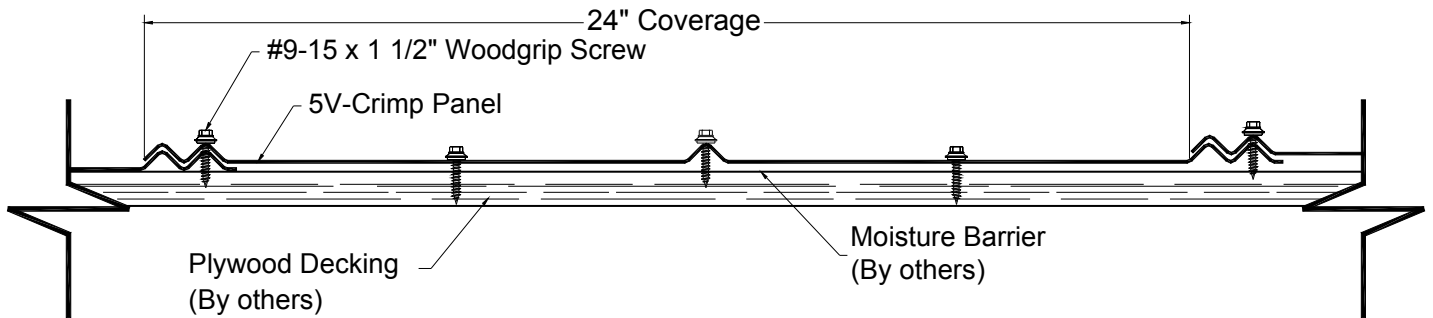


PROFILE DRAWINGS

DETAIL A 5V-CRIMP METAL ROOF PANEL

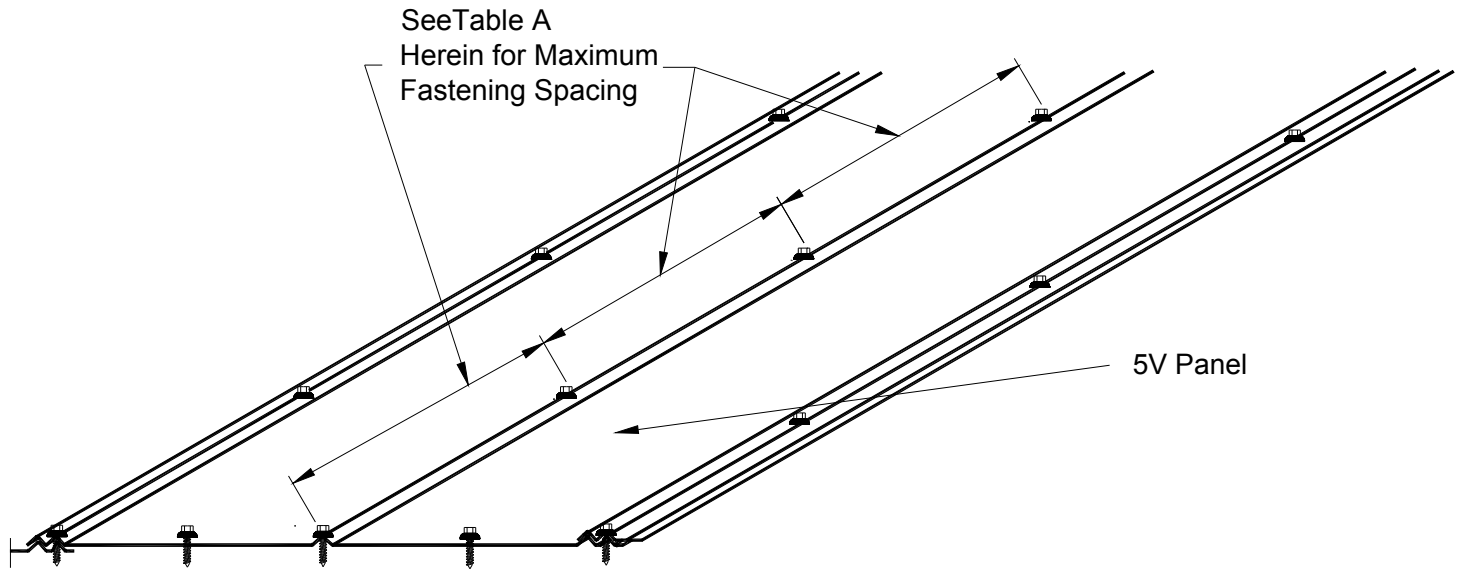


FASTENING PATTERN FOR 5V-CRIMP AT INTERIOR OF PANEL

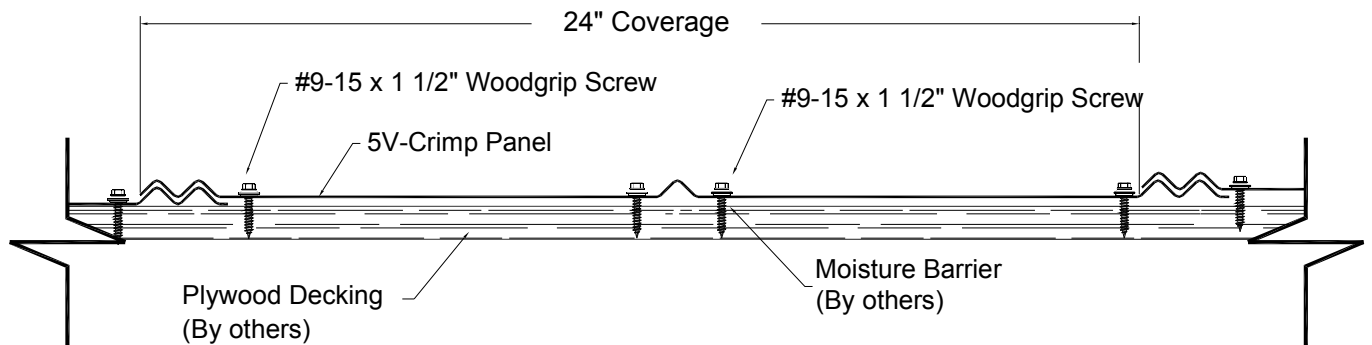


FASTENING PATTERN FOR 5V-CRIMP AT EAVE

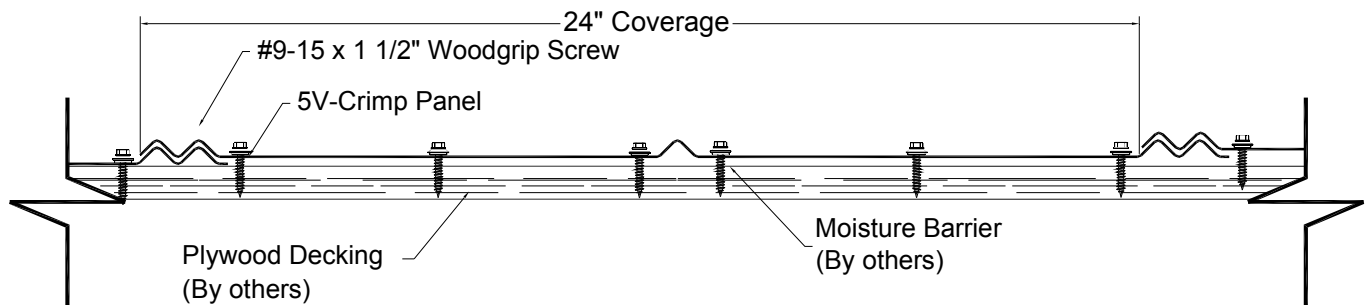
5V-CRIMP METAL ROOF PANEL



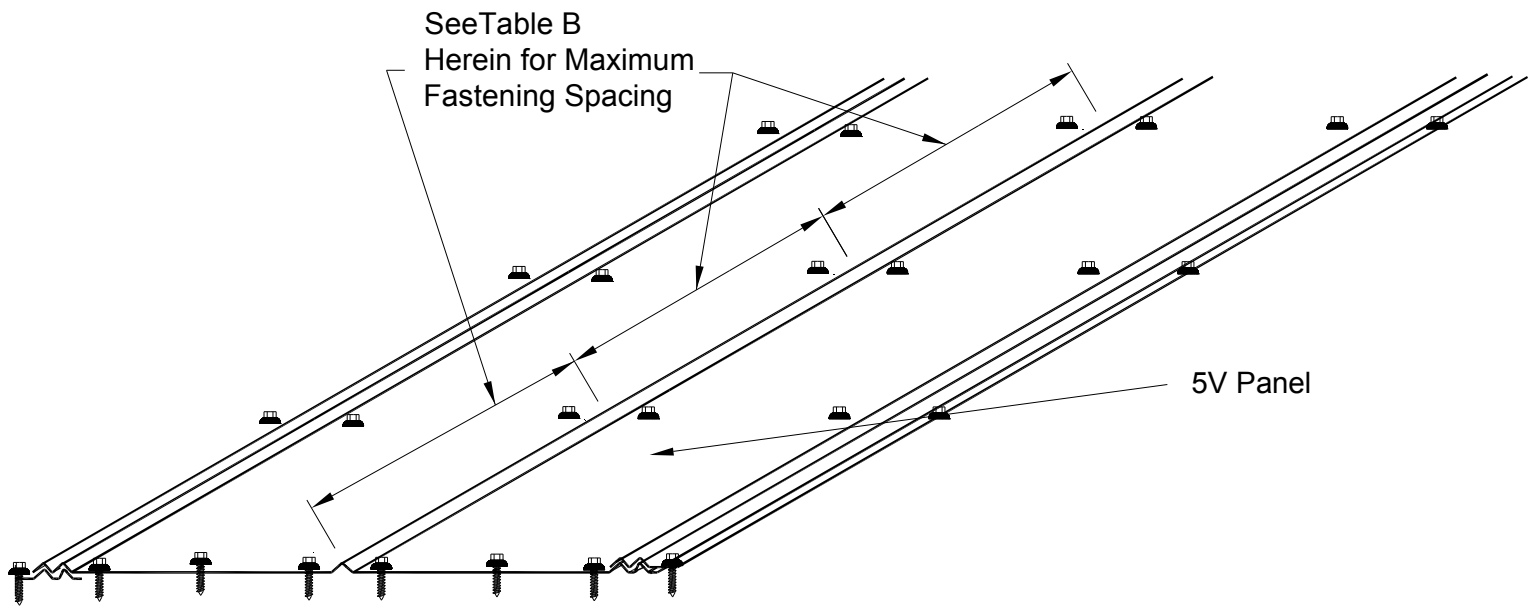
DETAIL B



FASTENING PATTERN FOR 5V-CRIMP AT INTERIOR OF PANEL



FASTENING PATTERN FOR 5V-CRIMP AT EAVE



END OF THIS ACCEPTANCE